

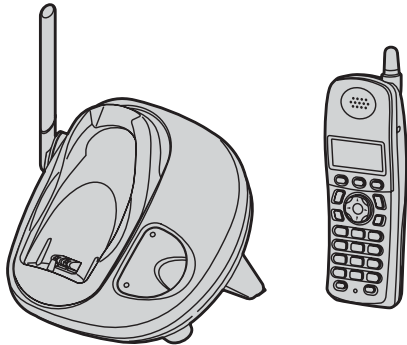
# Panasonic

## Operating Instructions

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2.4 GHz Digital Cordless Phone

Model No. **KX-TG2421NZ**



This unit is compatible with Caller ID. To use this feature, you must subscribe to the appropriate service offered by your service provider.

**Charge the battery for 6 hours before initial use.**

Please read these Operating Instructions before using the unit and save for future reference.

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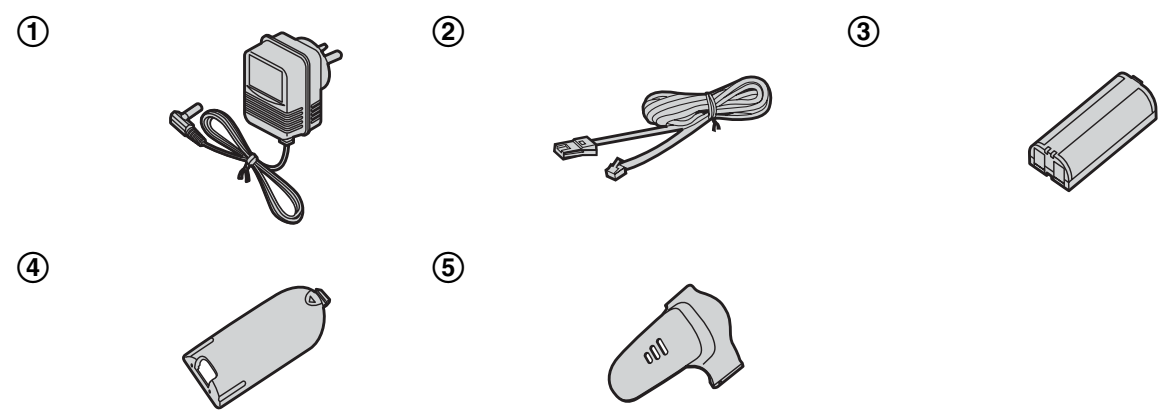
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Accessory information

Included accessories

No.	Accessory items	Quantity
①	AC adaptor for base unit	1
②	Telephone line cord	1
③	Battery	1
④	Handset cover	1
⑤	Belt clip	1



Additional/replacement accessories

Accessory items	Order number
Rechargeable nickel metal hydride (Ni-MH) battery	HHR-P105
Headset	KX-TCA88AL

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## Important safety instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from power outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example near a bathtub, wash bowl, kitchen sink, etc.
5. Place the unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorised service centre when service is required. Opening or removing covers may expose you to dangerous voltages or other risks.

Incorrect reassembly can cause electric shock when the unit is subsequently used.

12. Unplug this unit from power outlets and refer servicing to an authorised service centre when the following conditions occur:
  - A. When the power cord is damaged or frayed.
  - B. If liquid has been spilled into the unit.
  - C. If the unit has been exposed to rain or water.
  - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorised service centre.
  - E. If the unit has been dropped or physically damaged.
  - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

## SAVE THESE INSTRUCTIONS

### CAUTION:

#### Installation

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.

## Introduction

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- Do not touch the plug with wet hands.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the unit and is easily accessible.

### Battery

To reduce the risk of fire or injury to persons, read and follow these instructions.

- Use only the battery(ies) specified.
- Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

### WARNING:

- To prevent the risk of fire or electrical shock, do not expose this product to rain or any type of moisture.
- Unplug this unit from power outlets if it emits smoke, an abnormal smell or makes an unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised service centre.

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### Medical

- Consult the manufacturer of any personal medical devices, such as

pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2.4 GHz to 2.48 GHz, and the power output level can range from 0.04 to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

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### General Warnings

- This equipment will be inoperable when mains power fails.
- When a failure occurs which results in the internal parts becoming accessible, disconnect the power supply cord immediately and return this unit to an authorised service centre.
- Disconnect the telecom connection before disconnecting the power connection prior to relocating the equipment, and reconnect the power first.
- No “111” or other calls can be made from this device during a mains power failure. This equipment shall not be set to make automatic calls to the Telecom “111” Emergency Service.
- To minimise the possibility of lightning damage, when you know that a thunderstorm is coming, we recommend that you:
  - Unplug the telephone line cord from the phone jack.
  - Unplug the power supply cord from the AC power outlet.
- The earcap on the handset is magnetised and may retain metallic objects.
- This equipment has been tested and found to comply with AS/NZS 3548: 1995 limits for electromagnetic interference. Any modifications to any

part of the system or to any peripherals may void the EMC compliance of the system or the peripherals.

- The unit's answering system only responds to Distinctive Alert cadence(s) DA1 and DA3.
- Not all telephones will respond to incoming ringing when connected to the extension socket.
- This equipment may not provide for the effective hand-over of a call to another device connected to the same line.

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### Important notice

- Under power failure conditions, this telephone may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use.

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## For best performance

### Base unit location/noise

The base unit and handset use radio waves to communicate with each other. For maximum distance and noise-free operation, we recommend the following:

- Placing the unit away from electrical appliances such as a TV, personal computer or another cordless phone.
- Placing the base unit in a HIGH and CENTRAL location with no obstructions such as walls.
- Raising the antenna vertically.
- If you use the handset near a microwave oven which is being used, noise may be heard. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

### Environment

- Keep the unit away from electrical noise generating devices, such as fluorescent lamps and motors.
- The unit should be kept free from excessive smoke, dust, high temperature and vibration.
- The unit should not be exposed to direct sunlight.
- Do not place heavy objects on top of the unit.
- When you leave the unit unused for a long period of time, unplug this unit from power outlet.
- The unit should be kept away from heat sources such as heaters, kitchen stoves, etc. It should not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C. Damp basements should also be avoided.
- The maximum calling distance may be shortened when the unit is used in the

## ***Introduction***

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following places: Near obstacles such as hills, tunnels, undergrounds, near metal objects such as wire fences, etc.

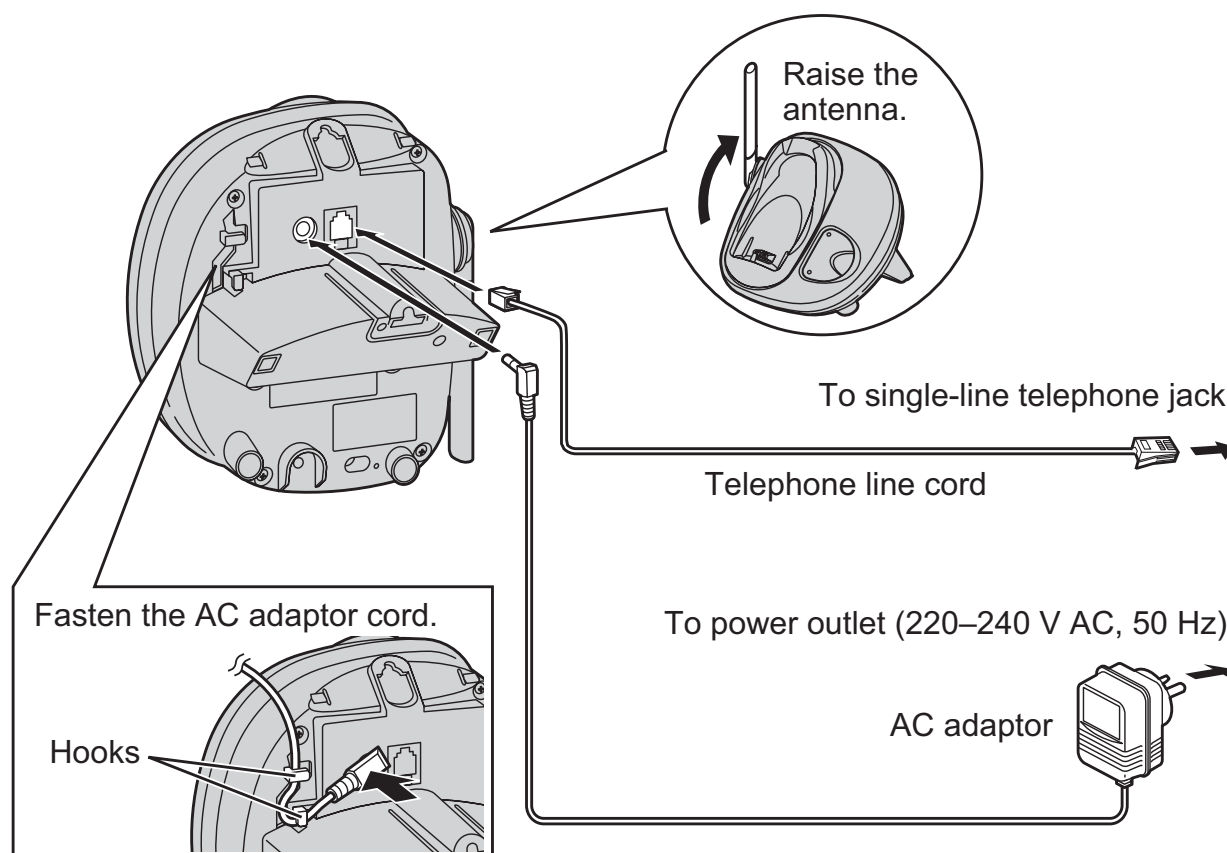
- Operating near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

### **Routine care**

- Wipe the outer surface of the unit with a soft cloth. Do not use benzine, thinner or any abrasive powder.



## Connections



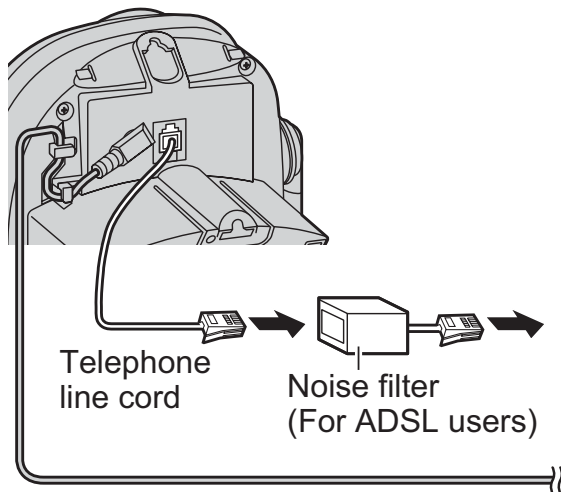
### Note:

- Use only the included Panasonic AC adaptor PQLV19AL.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
- The unit will not work during a power failure. We recommend connecting a standard telephone to the same telephone line or to the same telephone jack using a BT double adaptor.
- The unit is not designed to be used with rotary (pulse dialling) services.

## Preparation

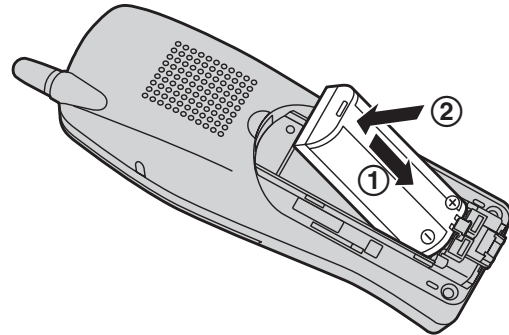
### If you subscribe to an ADSL service

- Please attach a noise filter (contact your ADSL provider) to the telephone line between the base unit and the telephone line jack in the event of the following:
  - Noise is heard during conversations.
  - Caller ID features (page 24) do not function properly.

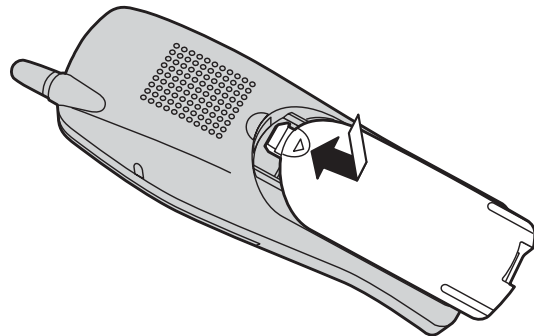


## Battery installation

- 1 Insert the battery (①), and press it down until it snaps into the compartment (②).



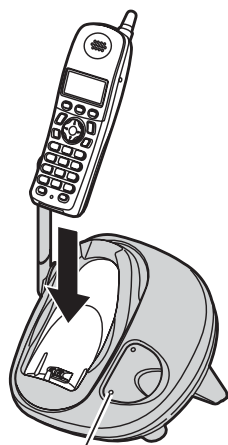
- 2 Close the handset cover.



## Battery charge

Place the handset on the base unit for **6 hours** before initial use.

- The unit will beep once, the CHARGE indicator will light, and “**Charging**” will be displayed.
- “**Charge completed**” is displayed when the battery has been fully charged. The CHARGE indicator will remain lit.



CHARGE indicator

### Note:

- To ensure the battery charges properly, clean the charge contacts of the handset and base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust, or high humidity.

## Battery strength

You can confirm the battery strength on the handset display.

Battery icon	Battery strength
	Fully charged
	Medium
	Low When flashing: needs to be recharged.
	Discharged

## Recharging the battery

Recharge the battery when:

- “**Recharge battery**” is displayed or flashes on the handset display.
- the handset beeps intermittently while it is in use.

### Note:

- Recharge the handset battery for more than 15 minutes, or the display will continue showing the indication.
- If the battery has been discharged, the handset will display “**Charge for 6h**” and when you place the handset on the base unit.

## Preparation


### Battery performance

After your Panasonic battery is fully charged, you can expect the following performance:

Operation	Operating time
While in use (talking)	Up to 5 hours
While not in use (standby)* <sup>1</sup>	Up to 11 days
While using the Clarity Booster feature (page 18)	Up to 3 hours

\*<sup>1</sup> Handset is off the base unit but not in use.


#### Note:

- Battery power is consumed whenever the handset is off the base unit, even when the handset is not in use. The longer you leave the handset off the base unit, the shorter you can actually talk on the handset. Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use.
- Once the battery is fully charged, you do not have to charge it again until “Recharge battery” is displayed or  flashes. This will maximise the battery life.

## Battery replacement

If battery performance diminishes, make sure you have cleaned the charge contacts and fully charged the battery. The battery needs to be replaced if any of the following are displayed after a few phone calls even when you have fully charged the battery.

– “Recharge battery”

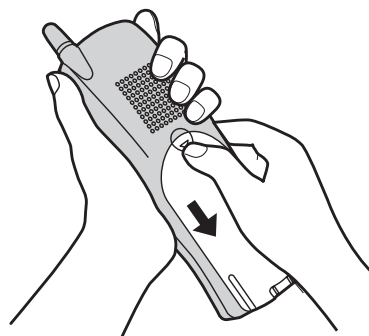
–  (flashing)

– “Charge for 6h”

– 

- Use only the rechargeable Panasonic battery noted on page 4.

- 1** Press the notch on the cover firmly and slide it as indicated by the arrow.



- 2** Replace the old battery with a new one, and close the cover (see page 10 for battery installation).

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## Controls and display

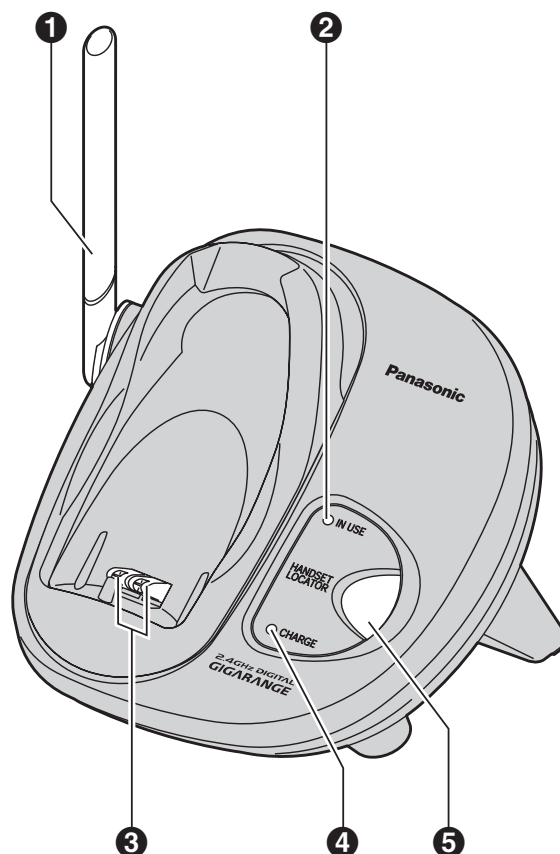
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### Controls

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#### Base unit

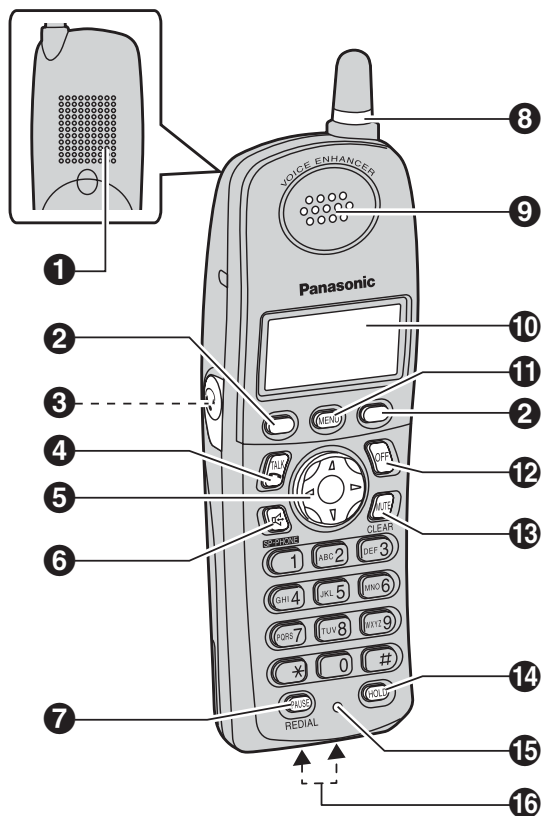
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- ❶ Antenna
- ❷ IN USE indicator
- ❸ Charge contacts
- ❹ CHARGE indicator
- ❺ [HANDSET LOCATOR]

## Preparation

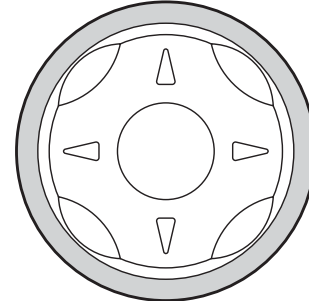
### Handset



- ❶ Speaker
- ❷ Soft key
- ❸ Headset jack
- ❹ [↶] (TALK)
- ❺ Navigator key
- ❻ [↶] (SP-PHONE)
- ❼ [PAUSE] [REDIAL]
- ❽ Ringer indicator
- ❾ Receiver
- ❿ Display
- ⓫ [MENU]
- ⓬ [OFF]
- ⓭ [MUTE] [CLEAR]
- ⓮ [HOLD]
- ⓯ Microphone
- ⓰ Charge contacts

### Using the navigator key

The handset navigator key can be used to navigate through menus and to select items shown on the display, by pressing [▲], [▼], [◀], or [▶].



## Display

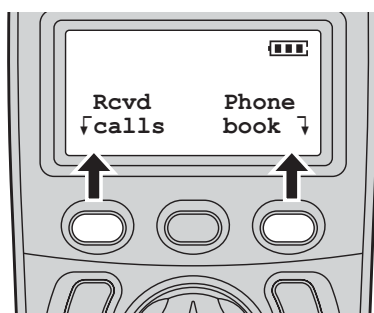
### Handset display items

Displayed item	Meaning
ⓂⓋⓂ	Voice enhancer is on.
▢▢▢	Battery strength

### Soft keys

The handset features 2 soft keys. By pressing a soft key, you can select the function displayed directly above it.

- The functions displayed will vary depending on how you are using the unit.
- When a function does not appear above a soft key, the soft key has no function.



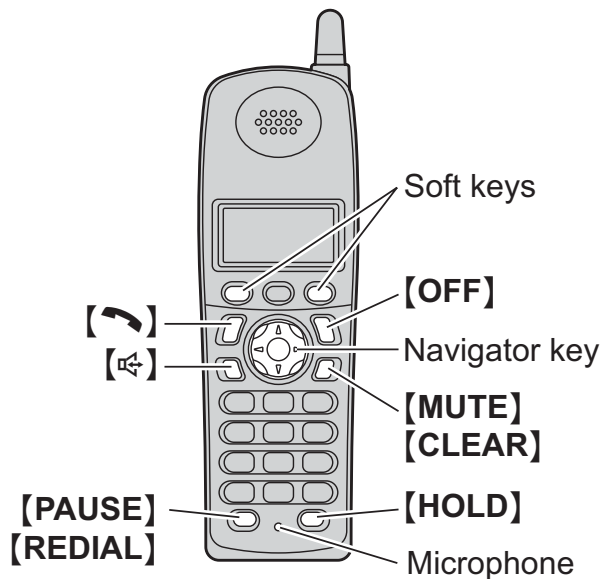
### Soft key examples:

Display function	Action
Rcvd calls	Enters caller list
Phonebook	Enters phonebook

### Backlit display and handset keypad

The handset display and dialling buttons will light for a few seconds after pressing any of the handset's controls or lifting the handset off the base unit. They will also light when a call is being received.

### Making calls



- 1 Lift the handset and press **[↶]**.
  - “**Talk**” will be displayed.
- 2 Dial the phone number.
- 3 When finished talking, press **[OFF]** or place the handset on the base unit.

#### Note:

- “**Line in use**” is displayed when someone is talking on another phone.

#### To adjust the receiver volume

3 levels (high/medium/low) are available. While using the receiver, press **[▼]** or **[▲]** repeatedly.

#### To use the speakerphone

- 1 Lift the handset and press **[☎]**.
  - “**SP-phone**” will be displayed.
- 2 Dial the phone number.
- 3 When the other party answers, speak into the microphone.
- 4 When finished talking, press **[OFF]** or place the handset on the base unit.

#### Note:

- Talk alternately with the caller in a quiet room.
- If the other party has difficulty hearing you, press **[▼]** to decrease the speaker volume.
- While on a call, you can switch from the receiver to the speakerphone by pressing **[☎]**. To switch back to the receiver, press **[↶]**.

#### To adjust the speaker volume

6 levels (high to low) are available. While using the speaker, press **[▼]** or **[▲]** repeatedly.

#### To dial after confirming the entered number

- 1 Enter the phone number.

Example:



- To correct a digit, press **[◀]** or **[▶]** to move the cursor, then press **[CLEAR]**. Enter the correct number.
  - If a pause is required when dialling, press **[PAUSE]** where needed (page 19).
  - To cancel, press **[OFF]**.
- 2 Press **[↶]**, **[☎]**, or **[Call]**.
  - 3 When finished talking, press **[OFF]** or place the handset on the base unit.

#### To redial the last number dialled

- 1 Press **[↶]** or **[☎]**.
- 2 Press **[REDIAL]**.



### To make a call using the redial list

The last 5 phone numbers dialled are stored in the redial list.

- 1** Press **[REDIAL]**.
  - The last number dialled will be displayed.
- 2** Press **[▼]** or **[▲]** repeatedly to display the desired number.
  - To delete the displayed number, press **[CLEAR]**.
  - To exit the list, press **[OFF]**.
- 3** Press **[↶]**, **[↷]**, or **[Call]**.

## Answering calls

When a call is being received, the ringer indicator flashes rapidly.

- 1** Lift the handset and press **[↶]** or **[↷]**.
  - You can also answer a call by pressing any button except **[▼]**, **[▲]**, **[◀]**, **[▶]**, or **[OFF]**. (**Any key talk feature**)
- 2** When finished talking, press **[OFF]** or place the handset on the base unit.

### Auto talk

This feature allows you to answer a call by simply lifting the handset off the base unit. You do not need to press **[↶]**. To activate this feature, see page 29.

### Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing **[OFF]**. The handset will ring the next time a call is received.

### Useful features during a call

#### HOLD button

This feature allows you to put an outside call on hold.

Press **[HOLD]** during an outside call.

- “**Hold**” will be displayed.
- To return to the call, press **[↶]** or **[↷]**.

#### Note:

- If another phone is connected on the same line (page 9), you can also take the call by lifting its handset.
- If a call is kept on hold for more than 6 minutes, an alarm tone will start to sound and the ringer indicator will flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

#### MUTE button

You can mute your voice during a conversation. While mute is turned on you will be able to hear the other party, but the other party will not be able to hear you.

To mute your voice, press **[MUTE]**.

Example: 

Talk 00-00-30   <Mute>
---------------------------

- “<Mute>” will flash on the display.
- To return to the conversation, press **[MUTE]**, **[↶]**, or **[↷]**.

#### Voice enhancer

This feature can simulate a band signal above the normal bandwidth limitations, achieving a sound which is close to the actual voice. You can turn this feature on or off, depending on the circumstance.

- 1 Press **[MENU]** during an outside call.
- 2 To turn this feature on or off, press **[3]**.
  - You can also select “**V.E. on**” or “**V.E. off**” by pressing **[▼]** or **[▲]** then pressing **[▶]**.

▶3=V.E. on
------------

- When turned on, “**(VE)**” will be displayed.

#### Note:

- Once you turn voice enhancer on, it will be activated for all outside calls until turned off.
- You can also turn this feature on or off by programming (page 29).
- Depending on the condition and quality of your telephone line, this feature may emphasise existing line noise. If it becomes difficult to hear, turn this feature off.

#### Clarity booster

This feature can improve sound clarity when the handset is used in an area where there may be interference. During an outside call, this feature will be turned on automatically when necessary. This feature will turn off when you hang up or put a call on hold. It will not turn off automatically during a call. You can also turn this feature on or off manually.

- 1 Press **[MENU]** during an outside call.
- 2 Press **[2]** to select “**Booster on**” or “**Booster off**”.

- You can also select “**Booster on**” or “**Booster off**” by pressing [▼] or [▲] then pressing [▶].

1=Phonebook ▶2=Booster on
------------------------------

- While this feature is turned on, “**BOOST**” will flash on the display.

### Note:

- If this feature is turned off manually during a call, it will not be turned on automatically during the same call.
- While this feature is turned on, battery operating time will be shortened (page 12).

## PAUSE button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.

For example, if you need to dial the line access number “9” when making outside calls with a PBX:

**1** Press [9].

**2** Press [PAUSE], then dial the phone number.

Example:

9P0555666777
↓Recall      Call↓

**3** Press [↶], [↷], or [Call].

### Note:

- A 3.5 second pause is inserted each time [PAUSE] is pressed. Press repeatedly to insert longer pauses.

## Recall button

Pressing [Recall] allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as Call Waiting.

Example:

Talk
00-00-20
↓Recall

### Note:

- To change the recall time, see page 30.

## For Call Waiting service users

To use Call Waiting, you must subscribe to your telephone company’s Call Waiting service.

This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a Call Waiting tone.

Press [Recall] to answer the 2nd call.

- The 1st call is put on hold while you answer the 2nd call.
- To switch between calls, press [Recall].

### Note:

- Please contact your telephone company for details and availability of this service in your area.

---

### Handset locator

You can locate a misplaced handset by paging it from the base unit.

#### **1 Base unit:**

Press **[HANDSET LOCATOR]** to page the handset.

- The IN USE indicator will flash rapidly.
- The handset will beep for 1 minute.

#### **2 Base unit:**

To stop paging, press **[HANDSET LOCATOR]**.

OR

**Handset:**

To stop paging, press **[OFF]**.

## Using the phonebook

The handset phonebook allows you to make calls without having to dial manually. You can add 50 names and phone numbers to the handset phonebook and search for phonebook entries by name.

### Adding items to the phonebook

#### 1 Press **[Phonebook]**.

Rcvd ↓ calls	Phone book ↓
-----------------	-----------------

#### 2 Press **[Add]**.

- The display shows the number of items in the phonebook.

Example:

Phonebook	
7 items	
↓ Add	Search ↓

#### 3 Enter the name (max. 16 characters). See the character table on page 22 for entry.

Enter name	
█	
↓ Back	Next ↓

#### 4 Press **[Next]**.

#### 5 Enter the phone number (max. 32 digits).

- If a pause is required when dialling, press **[PAUSE]** where needed (page 19).

Enter phone no.
-----------------

#### 6 Press **[Next]**.

- If you want to change the name and number, press **[Edit]**, then repeat from step 3.

Example:

Tom	
0555654321	
↓ Edit	Save ↓

#### 7 Press **[Save]**.

- To add other items, repeat from step 2.

#### 8 Press **[OFF]**.

#### Note:

- Your telephone company may charge you for a local call if the number dialled has the area code prefix included. If this is unacceptable, dial only the 7-digit local number. Do not dial the "0" prefix or the area code.

### To store emergency numbers

Emergency numbers are numbers stored in the phonebook that can be dialled using the phonebook even when dial lock is turned on (page 31).

To store a number as an emergency number, add # at the beginning of the name (see "Adding items to the phonebook").

## Phonebook

### Character table

The dial keys can be used to enter characters. To enter a character, press the appropriate dial key, repeatedly if necessary. To enter another character that is located on the same dial key, first press **[▶]** to move the cursor to the next space.

Key	Characters
<b>[1]</b>	& ' ( ) , - . / 1
<b>[2]</b>	a b c A B C 2
<b>[3]</b>	d e f D E F 3
<b>[4]</b>	g h i G H I 4
<b>[5]</b>	j k l J K L 5
<b>[6]</b>	m n o M N O 6
<b>[7]</b>	p q r s P Q R S 7
<b>[8]</b>	t u v T U V 8
<b>[9]</b>	w x y z W X Y Z 9
<b>[0]</b>	0 Space
<b>[*]</b>	*
<b>[#]</b>	#
<b>[CLEAR]</b>	To delete a character or number

### To edit/correct a mistake

Press **[◀]** or **[▶]** to move the cursor to the character or number you wish to erase, then press **[CLEAR]**. Enter the appropriate character or number.

#### Note:

- Press and hold **[CLEAR]** to erase all characters or numbers.

### Calling someone in the phonebook

Phonebook items can be searched for alphabetically by scrolling through the phonebook items.

#### 1 Press **[Phonebook]**.

- For quick search, you can skip to step 3.

#### 2 Press **[Search]**.

0-9=Name search ▼▲=Scroll list
-----------------------------------

#### 3 Press **[▼]** or **[▲]** repeatedly to display the desired item.

- To exit the phonebook, press **[OFF]**.

#### 4 Press **[↶]**, **[☎]**, or **[Call]**.

#### Note:

- To view a phone number over 16 digits long, follow steps 1 to 3, then press **[Edit]** and **[Next]**. Press **[OFF]** when finished.

### To search for a name by initial

#### 1 Press **[Phonebook]**, then press **[Search]**.

#### 2 Press the dialling button (**[0]** to **[9]**, **[#]**, or **[\*]**) which corresponds to the first letter you are searching for (see the character table).

Example: "LISA"

Press **[5]** repeatedly to display any name with the initial "L".

- If there is no item corresponding to the letter you selected, the next item will be displayed.

- 3 Press **[▼]** repeatedly to display the desired item.
  - To exit the phonebook, press **[OFF]**.
  - To dial the displayed number, press **[↶]**, **[☎]**, or **[Call]**.

## Editing items in the phonebook

- 1 Press **[Phonebook]**, then press **[Search]**.
- 2 Press **[▼]** or **[▲]** repeatedly to display the desired item.
- 3 Press **[Edit]**.
- 4 Edit the name if necessary. See the character table on page 22 for character entry.
- 5 Press **[Next]**.
- 6 Edit the phone number if necessary.
- 7 Press **[Next]**, then press **[Save]**.
  - To edit other items, repeat from step 2.
- 8 Press **[OFF]**.

## Erasing items in the phonebook

- 1 Press **[Phonebook]**, then press **[Search]**.
- 2 Press **[▼]** or **[▲]** repeatedly to display the desired item.
- 3 Press **[CLEAR]**.
  - To cancel erasing, press **[No]**.
- 4 Press **[Yes]**.
  - To erase other items, repeat from step 2.
- 5 Press **[OFF]**.

## Chain dial feature

This feature allows you to dial phone numbers from the phonebook while you are on a call.

Example: Using a long distance calling card

- ① Dial from the phonebook:  
18000123456 (Calling card access number).
- ② When prompted, dial from the phonebook:  
1234 (Calling card PIN).
- ③ When prompted, dial from the phonebook:  
15550123456 (the person you want to call).

- 1 **During an outside call**, press **[MENU]**.
- 2 Press **[1]** to select "Phonebook".
- 3 Press **[▼]** or **[▲]** repeatedly to display the desired item.
- 4 Press **[Call]**.
  - Repeat from step 1 to dial other numbers.

### Note:

- When storing a calling card access number and your PIN in the phonebook as one phonebook item, press **[PAUSE]** to add pauses after the number and PIN as necessary (page 19).

---

### Using Caller ID service

#### Important:

- This unit is Caller ID compatible. To use Caller ID features, you must subscribe to your telephone company's Caller ID service.

For all local and national incoming calls, your display will show the area code (e.g. 09 for Auckland) or the cellular prefix (e.g. 0274 for Telecom Cellular) followed by the caller's phone number. An Auckland caller's number will be displayed as 09XXXXXXX. The 7 X's represent the 7 digits of the caller's phone number. A caller from a 6-digit Telecom Cellular number will be displayed as 0274XXXXXX. For incoming international calls, your display may only show "0000". For business users on a Centrex line, your display will show Centrex extension numbers in the shorter extension number format used within your company.

---

#### Using toll services from Telecom or another company

Your telephone company may charge you for a local call if the number dialled has the area code prefix included. If this is unacceptable, dial only the 7-digit local number. Do not dial the "0" prefix or the area code.

---

#### Caller ID features

When an outside call is being received, the calling party's phone number will be displayed.

Phone numbers for the last 50 different callers will be logged in the caller list, allowing you to return missed calls. Caller information is stored by the most recent call to the oldest.

- When Caller ID information is received and it matches a phone number stored in the phonebook:

- The stored name will be displayed and logged in the caller list. (**Private name display**)

- If the unit cannot receive caller information, the following will be displayed:
  - "**Out of area**": The caller dialled from an area which does not provide Caller ID service.
  - "**Private caller**": The caller requested not to send caller information.
- If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.
- If the name display service is available in your area, the display will show callers' names. For further information, please contact your telephone company.



## Caller list

Caller information for the last 50 different callers will be logged in the caller list. You can use this list to return missed calls.

- Caller information includes phone numbers, the date and time of calls, and the number of times each caller called.

### Missed calls

If a call is not answered, the unit treats the call as a missed call. The number of missed calls is shown on the handset display. This lets you know if you should view the caller list to see who called while you were out.

Example: Handset off the base unit

10 missed calls	
Rcvd	Phone
↓ calls	book ↓

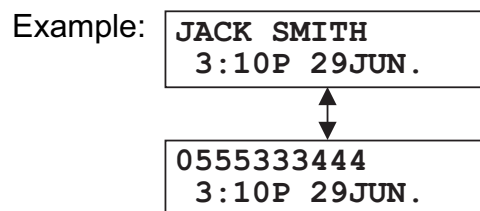
## Viewing the caller list and calling back

- 1 Press **[▼]** or **[▲]** to enter the caller list.
- 2 Press **[▼]** to search from the most recent call, or press **[▲]** to search from the oldest call.
  - To exit the caller list, press **[OFF]**.
- 3 Press **[↶]** or **[↷]**.

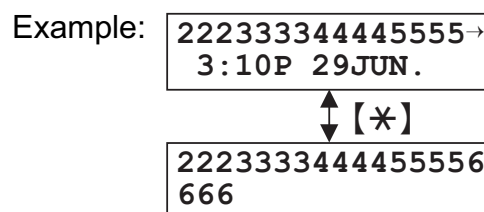
### Note:

- You can also press **[Rcvd calls]** to enter the caller list.
- Calling back will not be possible if the caller information does not include a phone number.
- In some cases, you may have to edit the number before dialling.

- If the caller's name and phone number are stored in the phonebook, the caller's name and phone number are displayed alternately.



- If an arrow (→) is displayed after the number, the whole phone number will not be shown. Press **[\*]** to see the remaining numbers or to return to the previous display. Each time you press **[\*]**, the display will change alternately.



## Displayed symbols

- If the same caller calls more than once, it will be displayed with the number ("x2" to "x9"). Only the date and time of the most recent call will be stored.
- A ✓ is displayed next to items which have already been viewed or answered on this handset.

---

### Editing a caller's phone number before calling back

You can edit a phone number in the caller list.

- 1** Press **[▼]** or **[▲]** to enter the caller list.
- 2** Press **[▼]** or **[▲]** repeatedly to display the desired item.
- 3** Press **[Edit]**.
- 4** Add or erase digits to the beginning of the number as necessary.
  - To add a digit, press the desired dial key.
  - To erase a digit, press **[CLEAR]** or **[#]**.
- 5** Press **[↶]** or **[↷]** to call back.

#### Note:

- The edited phone number will not be saved in the caller list.

---

### Storing caller information into the phonebook

Items in the caller list can be stored into phonebook.

- 1** Press **[▼]** or **[▲]** to enter the caller list.
- 2** Press **[▼]** or **[▲]** repeatedly to display the desired item.
  - To edit the number, press **[Edit]**, then edit the number (see “Editing a caller's phone number before calling back”, step 4).
- 3** Press **[Save]**.
  - “**Enter name**” will be displayed.
  - If the caller has name information, the name and phone number will be saved. Skip to step 6.
- 4** Enter the name if necessary (see page 21, step 3).
- 5** Press **[Next]**, then press **[Save]**.

- To continue storing other items, repeat from step 2.

### 6 Press **[OFF]**.

#### Note:

- If the caller information does not include a phone number, you cannot store it in the phonebook.

---

### Erasing caller information

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#### Erasing a selected item

- 1** Press **[▼]** or **[▲]** to enter the caller list.
- 2** Press **[▼]** or **[▲]** repeatedly to display the desired item.
- 3** Press **[CLEAR]**.
  - To erase other items, repeat from step 2.
  - To exit the caller list, press **[OFF]**.

---

#### Erasing all items

Make sure that you have no missed calls.

- 1** Press **[▼]** or **[▲]** to enter the caller list.
- 2** Press **[All erase]**.
  - To cancel erasing, press **[No]**.
- 3** Press **[Yes]**.

## Guide to handset programming

For your reference, a chart of all programmable functions is printed below. Details for each item can be found on the corresponding pages. To programme, press **[MENU]**, press **[▼]** or **[▲]** to scroll through the menu, and press **[►]** or **[Select]** when the desired menu item or setting is displayed.

### Important:

- Before programming, make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit.

Main menu	Sub-menu 1	Sub-menu 2	Page
Ringer setting	Ringer volume	–	page 28
	Ringer tone	–	page 28
Voice enhancer	–	–	page 29
Dial lock	–	–	page 31
Initial setting	LCD contrast	–	page 29
	Key tone	–	page 31
	Auto talk	–	page 29
	Set area code	–	page 30
	Set tel line	Set dial mode	page 38
		Set recall time	page 30
		Set line mode	page 30
	Registration	–	page 31

### Note:

- To exit programming, press **[OFF]** at any time.
- To go back to the previous menu, press **[◀]** or **[Back]**, or press **[►]** or **[Select]** while “(Go back)” is displayed.

### Ringer settings

#### Handset ringer volume

4 levels (high/medium/low/off) are available. The default setting is HIGH.

- 1 Press **[MENU]**.
- 2 Scroll to “**Ringer setting**” by pressing **[▼]** or **[▲]**, then press **[►]**.

Ringer setting

- 3 Scroll to “**Ringer volume**” by pressing **[▼]** or **[▲]**, then press **[►]**.

Ringer volume

- 4 Press **[▼]** or **[▲]** repeatedly to select the desired volume.

Ringer volume  
Low ■■■■■■ High  
↓Back ▼▲ Save↓

- To turn the ringer off, press **[▼]** repeatedly until “**Off ?**” is displayed.

- 5 Press **[Save]**.

#### Note:

- When the ringer volume is set to off, the handset will display “**Ringer off**”, and will not ring for outside calls. The handset will ring at the low level when paged by the base unit.

#### Handset ringer tone

You can change the ringer tone heard when an outside call is received. There are 3 tones and 4 melodies. The default setting is “**Tone 1**”.

- 1 Press **[MENU]**.
- 2 Scroll to “**Ringer setting**” by pressing **[▼]** or **[▲]**, then press **[►]**.

Ringer setting

- 3 Scroll to “**Ringer tone**” by pressing **[▼]** or **[▲]**, then press **[►]**.

Ringer tone

- 4 Press **[▼]** or **[▲]** repeatedly to select the desired setting.

Ringer tone  
1= Tone 1  
↓Back ▼▲ Save↓

- You can also select the ringer tone by pressing **[1]** to **[7]**.
- If the ringer volume has been turned off, the handset will not ring.

- 5 Press **[Save]**, then press **[OFF]**.

#### Note:

- If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
  - the caller hangs up before you answer the call.
  - another person answers the call using another phone connected on the same line.

---

### Call options

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#### Auto talk

When this feature is turned on, you can answer a call by lifting the handset off the base unit without pressing **[📞]**. The default setting is OFF.

- 1 Press **[MENU]**.
- 2 Scroll to “**Initial setting**” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Scroll to “**Auto talk**” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 4 Press **[▼]** or **[▲]** repeatedly to select “On” or “Off”.
- 5 Press **[Save]**, then press **[OFF]**.

#### Note:

- If you subscribe to Caller ID service and want to view the caller’s information on the handset display after lifting up the handset to answer a call, turn off this feature.

---

#### Voice enhancer

You can turn the voice enhancer feature on or off. The default setting is OFF.

- 1 Press **[MENU]**.
- 2 Scroll to “**Voice enhancer**” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Press **[▼]** or **[▲]** repeatedly to select “On” or “Off”.
- 4 Press **[Save]**, then press **[OFF]**.
  - When turned on, “**(VE)**” will be displayed.

---

### Display options

---

#### Handset LCD contrast

You can adjust the handset display contrast. There are 6 levels. The default setting is level 3.

- 1 Press **[MENU]**.
- 2 Scroll to “**Initial setting**” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Scroll to “**LCD contrast**” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 4 Press **[▼]** or **[▲]** repeatedly to select the desired setting.
- 5 Press **[Save]**, then press **[OFF]**.

---

### Telephone settings

---

#### Recall time

The recall time depends on your telephone exchange or host PBX.

You can select: “90ms” (milliseconds), “100ms”, “110ms”, “250ms”, “300ms”, “400ms”, “600ms” (default), or “700ms”.

- 1 Press **[MENU]**.
- 2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 4 Scroll to “Set recall time” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 5 Press **[▼]** or **[▲]** repeatedly to select the desired setting.
- 6 Press **[Save]**, then press **[OFF]**.

#### Note:

- The setting should stay at 600 ms unless pressing **[Recall]** fails to pick up the Call Waiting call.
- If the unit is connected via a PBX, certain PBX functions (call transferring, etc.) may not work correctly. Consult your PBX supplier for the correct setting.

---

#### Line mode

The line mode is preset to “B” and generally should not be adjusted. If “Line in use” on the handset is not displayed properly, the line mode selection is incorrect. Set line mode to “A”.

- 1 Press **[MENU]**.
- 2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **[▶]**.

- 4 Scroll to “Set line mode” by pressing **[▼]** or **[▲]**, then press **[▶]**.

- 5 Press **[▼]** or **[▲]** repeatedly to select the desired setting.

- 6 Press **[Save]**, then press **[OFF]**.

---

#### Storing your area code

We recommend storing your area code before using Caller ID (page 24). Calls from the same area will be recorded in the caller list without the area code. You do not have to remove it before calling back the caller or storing in the phonebook.

- 1 Press **[MENU]**.
- 2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Scroll to “Set area code” by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 4 Enter your area code (max. 8 digits).
  - To correct a digit, press **[◀]** or **[▶]** to move the cursor, then press **[CLEAR]**. Enter the correct number.
- 5 Press **[Save]**, then press **[OFF]**.

---

#### To erase your area code

Press and hold **[CLEAR]** in step 4, press **[Save]**, then press **[OFF]**.

#### Note:

- The use of this feature can prevent a National Call from being dialled. For example, the “03” for South Island callers will be omitted and will therefore prevent a National Call to other areas of the South Island.

## Other options

### Dial lock

This feature prohibits making outside calls. The default setting is OFF.

#### Important:

- When dial lock is turned on, only phone numbers stored in the phonebook as emergency numbers (numbers stored with a # at the beginning of the name) can be dialled using the phonebook (page 21). We recommend storing emergency numbers in the phonebook before using this feature.
- When dial lock is turned on, you cannot store, edit, or erase items in the phonebook.

#### To turn dial lock on

- 1 Press **[MENU]**.
- 2 Scroll to "Dial lock" by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Enter a 4-digit password.
  - This password is required when turning dial lock off. We recommend writing the password down.
- 4 Press **[Save]**.
- 5 Press **[Yes]**.
  - "Dial lock on" will be displayed.
- 6 Press **[OFF]**.

#### Note:

- If dial lock is turned on, the handset displays "Dial lock". While there are missed calls, "Dial lock" is not displayed when the handset is off the base unit.

#### To turn dial lock off

- 1 Press **[MENU]**.
- 2 Scroll to "Dial lock" by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Enter the same password that was entered when dial lock was turned on.
- 4 Press **[Save]**.
- 5 Press **[Yes]**.
  - "Dial lock off" will be displayed.
- 6 Press **[OFF]**.

#### Note:

- If you forget the password, consult your nearest Panasonic service centre.

### Handset key tone

You can select whether or not key tones are heard when keys are pressed. Includes confirmation tones and error tones. The default setting is ON.

- 1 Press **[MENU]**.
- 2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 3 Scroll to "Key tone" by pressing **[▼]** or **[▲]**, then press **[▶]**.
- 4 Press **[▼]** or **[▲]** repeatedly to select "On" or "Off".
- 5 Press **[Save]**, then press **[OFF]**.

### Re-registering the handset

If "No link to base. Move closer to base, try again." is displayed even when the handset is near the base unit, you may need to re-register the handset to the base unit.

#### Important:

- Make sure the base unit is not being used.

## ***Programmable Settings***

---

- Have the handset and base unit near each other when re-registering the handset.

### **1 Handset:**

Press **[MENU]**.

### **2** Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **[▶]**.

### **3** Scroll to “Registration” by pressing **[▼]** or **[▲]**, then press **[▶]**.

### **4 Base unit:**

Press and hold **[HANDSET LOCATOR]** until the CHARGE indicator flashes.

- After the CHARGE indicator starts flashing, the rest of the procedure must be completed within 1 minute.

### **5 Handset:**

Press **[OK]**, then wait until the handset beeps.

- Registration is complete.



## Programming via direct commands

You can also programme most features using “direct commands”—special codes that take you directly to the feature you wish to programme and allow you to select the desired setting. There is no need to scroll through the unit’s menus.

Details of each feature can be found on the corresponding pages.

- 1** Press **[MENU]**.
- 2** Enter the desired feature code (shown below).
- 3** Enter the desired setting code (shown below).
  - This step may vary depending on the feature being programmed.
- 4** Press **[Save]**.
- 5** Press **[OFF]** to exit programming mode.

### Direct commands chart

Feature	Feature code	Setting code	Page
Ringer volume	<b>[1] [1]</b>	<b>[1]</b> : Low <b>[2]</b> : Medium <b>[3]</b> : High <b>[0]</b> : Off	page 28
Ringer tone	<b>[1] [2]</b>	<b>[1]–[3]</b> : Tone pattern 1–3 <b>[4]–[7]</b> : Melody pattern 1–4	page 28
Voice enhancer	<b>[5]</b>	<b>[1]</b> : On <b>[0]</b> : Off	page 29
Dial lock	<b>[6]</b>	Go to step 3 on page 31.	page 31
LCD contrast	<b>[0] [1]</b>	<b>[1]–[6]</b> : Level 1–6	page 29
Key tone	<b>[0] [2]</b>	<b>[1]</b> : On <b>[0]</b> : Off	page 31
Auto talk	<b>[0] [3]</b>	<b>[1]</b> : On <b>[0]</b> : Off	page 29
Set area code	<b>[0] [4]</b>	Go to step 4 on page 30	page 30
Set dial mode	<b>[0] [5] [1]</b>	–	page 38
Set recall time	<b>[0] [5] [2]</b>	<b>[1]</b> : 700 ms <b>[2]</b> : 600 ms <b>[3]</b> : 400 ms <b>[4]</b> : 300 ms <b>[5]</b> : 250 ms <b>[6]</b> : 110 ms <b>[7]</b> : 100 ms <b>[8]</b> : 90 ms	page 30
Set line mode	<b>[0] [5] [3]</b>	<b>[1]</b> : A <b>[2]</b> : B	page 30
Handset registration	<b>[0] [0]</b>	Go to step 4 on page 32.	page 31

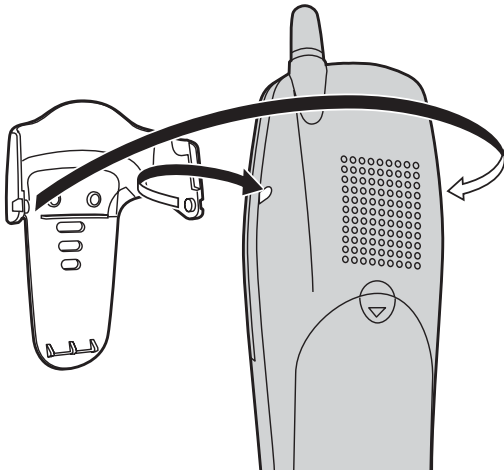
#### Note:

- If you make a mistake or enter the wrong code, press **[OFF]** then start again by pressing **[MENU]**.

### Belt clip

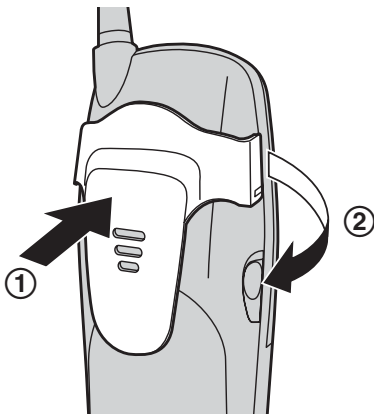
You can hang the handset on your belt or pocket using the included belt clip.

#### To attach the belt clip



#### To remove the belt clip

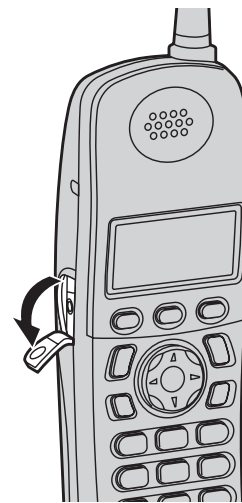
While pressing the top of the clip (①), pull the right edge in the direction of the arrow (②).





### Headset (optional)

Connecting an optional headset to the handset allows hands-free phone conversations. Please use only a Panasonic headset. See page 4 for the compatible headset and ordering information.

#### To connect an optional headset to the handset



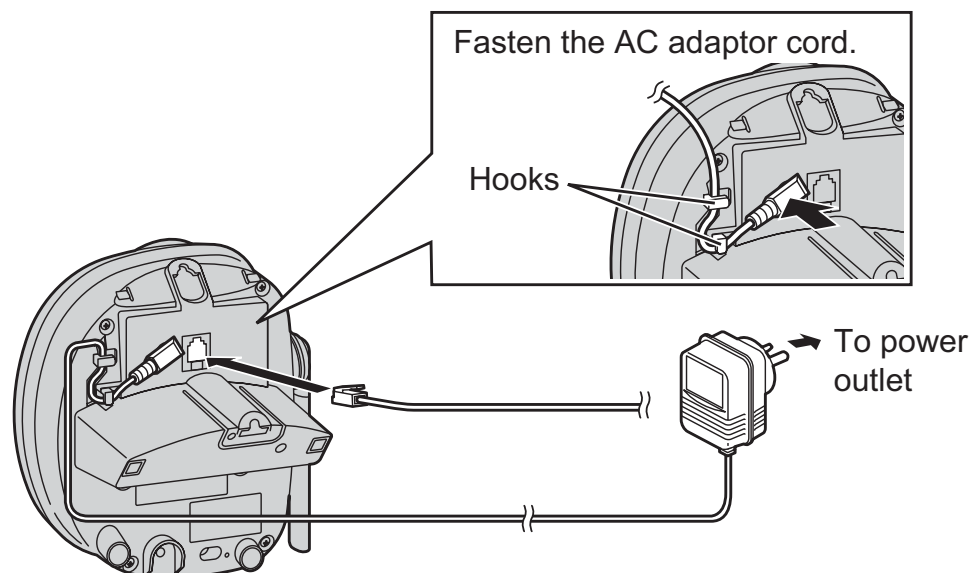
#### Note:

- Only telecommunications compliance labelled headsets should be plugged into the headset jack on the handset.
- To switch to the speakerphone, press . To return to the headset, press .

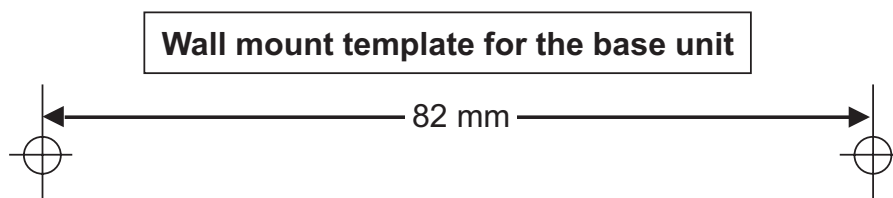
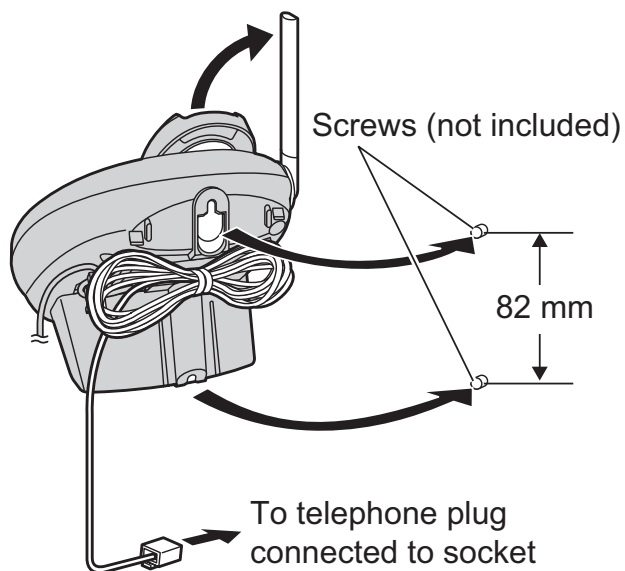
## Wall mounting

The base unit can be mounted on a wall.

- 1 Connect the AC adaptor and the telephone line cord.



- 2 Drive the screws (not included) into the wall using the wall mount template (see below). Connect the telephone line cord. Mount the unit, then slide it down.
  - Raise the antenna.



### Error messages

If the unit detects a problem, one of the following messages will be displayed on the handset.

Display message	Cause & solution
<b>Error!!</b>	<ul style="list-style-type: none"><li>● When you tried to register the handset, the handset and the base unit could not link for some reason, such as interference from electrical appliances. Move the handset and the base unit away from the electrical appliances and try again.</li><li>● The entered password was wrong in programming dial lock. Enter the correct password.</li></ul>
<b>No link to base. Move closer to base, try again.</b>	<ul style="list-style-type: none"><li>● The handset has lost communication with the base unit. Move closer to the base unit, and try again.</li><li>● Confirm that the base unit's AC adaptor is plugged in.</li><li>● Raise the base unit antenna.</li><li>● The handset's registration may have been cancelled. Re-register the handset (page 31).</li></ul>
<b>Phonebook full</b>	<ul style="list-style-type: none"><li>● There is no space to store new items in the phonebook. Erase unnecessary items (page 23).</li></ul>
<b>No items stored</b>	<ul style="list-style-type: none"><li>● Your phonebook or redial list is empty.</li></ul>
<b>Please lift up and try again.</b>	<ul style="list-style-type: none"><li>● A handset button was pressed while the handset was on the base unit. Lift the handset and press the button again.</li></ul>
<b>System is busy. Please try again later.</b>	<ul style="list-style-type: none"><li>● The handset has lost communication with the base unit. Move closer to the base unit and try again.</li></ul>
<b>Dial locked</b>	<ul style="list-style-type: none"><li>● Dial lock is turned on. To turn it off, see page 31.</li></ul>

## Troubleshooting

### General use

Problem	Cause & solution
The unit does not work.	<ul style="list-style-type: none"> <li>● Make sure that the battery is installed correctly (page 10).</li> <li>● Check the connections (page 9).</li> <li>● Fully charge the battery (page 11).</li> <li>● Clean the charge contacts and charge again (page 11).</li> <li>● Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again.</li> <li>● Re-install the battery (page 10) and fully charge it.</li> </ul>
The display shows "No link to base. Move closer to base, try again." and an alarm tone sounds.	<ul style="list-style-type: none"> <li>● The handset is too far from the base unit. Move closer and try again.</li> <li>● Plug in the base unit's AC adaptor.</li> <li>● Raise the base unit antenna.</li> <li>● If the above remedies do not solve the problem, the handset may have lost communication with the base unit. Register the handset again (page 31).</li> </ul>
I cannot hear a dial tone.	<ul style="list-style-type: none"> <li>● Confirm that the telephone line cord is connected (page 9).</li> <li>● Disconnect the unit from the telephone line and connect a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your telephone company.</li> </ul>

### Programmable settings

Problem	Cause & solution
I cannot programme items.	<ul style="list-style-type: none"> <li>● Programming is not possible while the handset and base unit are being used.</li> <li>● Do not pause for over 1 minute while programming.</li> <li>● Move closer to the base unit.</li> </ul>
While programming, the handset starts to ring.	<ul style="list-style-type: none"> <li>● A call is being received. Answer the call and start again from the beginning after hanging up.</li> </ul>

### Making/answering calls, Paging

Problem	Cause & solution
Static is heard, sound cuts in and out. Interference from other electrical units.	<ul style="list-style-type: none"><li>● Move the handset and the base unit away from other electrical appliances.</li><li>● Move closer to the base unit.</li><li>● Raise the base unit antenna.</li><li>● Turn on the clarity booster feature (page 18).</li><li>● Your unit is connected to a telephone line with ADSL (JetStream) service. We recommend that you contact your ADSL service provider to have an ADSL Splitter installed. We do not recommend the use of generic ADSL filters. Contact your ADSL provider for details.</li></ul>
The handset does not ring.	<ul style="list-style-type: none"><li>● The ringer volume is turned off. Adjust it (page 28).</li></ul>
I cannot make a call.	<ul style="list-style-type: none"><li>● Dial lock is turned on. To turn it off, see page 31.</li><li>● If the above remedies do not solve the problem, set the dialling mode. Press <b>[MENU] [0] [5] [1] [Save] [OFF]</b>.</li><li>● The unit is not designed to be used with rotary (pulse dialling) services.</li></ul>
I cannot redial by pressing <b>[REDIAL]</b> .	<ul style="list-style-type: none"><li>● If the last number dialled was more than 48 digits long, the number will not be redialled correctly.</li><li>● If you press <b>[REDIAL]</b> after you have started dialling, this button functions as the <b>[PAUSE]</b> button. To redial, do not dial any numbers before pressing <b>[REDIAL]</b>.</li><li>● Dial lock is turned on. To turn it off, see page 31.</li></ul>
I cannot have a conversation using the headset.	<ul style="list-style-type: none"><li>● Make sure that an optional headset is connected properly (page 34).</li><li>● If "SP-phone" is displayed on the handset, press <b>[↶]</b> to switch to the headset.</li><li>● Use only the Panasonic KX-TCA88AL headset.</li></ul>
I cannot page the handset.	<ul style="list-style-type: none"><li>● The called handset is too far from the base unit.</li><li>● The called handset is in use. Try again later.</li></ul>

### Phonebook

Problem	Cause & solution
I cannot store an item in the phonebook.	<ul style="list-style-type: none"><li>● You cannot store an item in the phonebook while the handset is in talk or speakerphone mode.</li><li>● Do not pause for over 1 minute while storing.</li><li>● Dial lock is turned on. To turn it off, see page 31.</li></ul>
While storing an item in the phonebook, the handset starts to ring.	<ul style="list-style-type: none"><li>● A call is being received. Answer the call and start again from the beginning after hanging up.</li></ul>





<b>Problem</b>	<b>Cause &amp; solution</b>
The display exits the phonebook while searching.	<ul style="list-style-type: none"><li>● The handset automatically exits after 1 minute of inactivity.</li></ul>

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## **Caller ID**

<b>Problem</b>	<b>Cause &amp; solution</b>
The handset does not display the caller's phone number.	<ul style="list-style-type: none"><li>● You have not subscribed to Caller ID service. Contact your telephone company to subscribe.</li><li>● If your unit is connected to any additional telephone equipment such as Caller ID box or wireless telephone jack, disconnect the unit from the equipment and plug the unit directly into the wall jack.</li><li>● Your unit is connected to a telephone line with ADSL (JetStream) service. We recommend that you contact your ADSL service provider to have an ADSL Splitter installed. We do not recommend the use of generic ADSL filters. Contact your ADSL provider for details.</li><li>● Other telephone equipment such as a monitored Burglar Alarm or the modem in the SKY Digital decoder may be interfering with this unit. Disconnect the other equipment and try again.</li><li>● The caller requested not to send caller information (page 24).</li></ul>
The display exits the caller list while searching.	<ul style="list-style-type: none"><li>● The handset automatically exits after 1 minute of inactivity.</li></ul>

### Battery charge

Problem	Cause & solution
"Recharge battery" is displayed,  flashes or the handset beeps intermittently.	<ul style="list-style-type: none"><li>Fully charge the battery (page 11).</li></ul>
"Charge for 6h" and  are displayed and the handset does not work.	<ul style="list-style-type: none"><li>The battery has been discharged. Fully charge the battery (page 11).</li></ul>
I charged the battery fully, but "Recharge battery" is still displayed and/or  continues to flash, or "Charge for 6h" and  are displayed.	<ul style="list-style-type: none"><li>Clean the charge contacts and charge again (page 11).</li><li>The battery may need to be replaced (page 12). If you install a new battery, fully charge it (page 11).</li></ul>
The CHARGE indicator does not go out after the battery has been charged.	<ul style="list-style-type: none"><li>This is normal.</li></ul>
The handset display is blank.	<ul style="list-style-type: none"><li>Confirm that the battery is properly installed.</li><li>Fully charge the battery (page 11).</li></ul>

### Power failure

Problem	Cause & solution
The unit will not function.	<ul style="list-style-type: none"><li>This product is not designed to make calls in the event of a power failure. We recommend connecting a standard telephone to the same telephone line in the event that emergency calls need to be made during a power failure (page 9).</li></ul>



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## Technical information

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### Base unit

**Operating environment:**

5 °C – 40 °C

**Frequency:**

2.4 GHz – 2.48 GHz

**Dimensions:**

Approx. height 125 mm x width 140 mm x  
depth 135 mm

**Mass (Weight):**

Approx. 270 g

**Power consumption:**

Standby: Approx. 2.7 W

Maximum: Approx. 5.0 W

**Power supply:**

AC adaptor (220–240 V AC, 50 Hz)

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### Handset

**Operating environment:**

5 °C – 40 °C

**Frequency:**

2.4 GHz – 2.48 GHz

**Dimensions:**

Approx. height 167 mm x width 48 mm x  
depth 31 mm

**Mass (Weight):**

Approx. 107 g

**Power supply:**

Ni-MH battery (2.4 V, 830 mAh)

**Security codes:**

1,000,000

**Note:**

- Design and specifications are subject to change without notice.

- The illustrations in these instructions may vary slightly from the actual product.

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